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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,769	10/09/2006	Patrick Rafter	US040193US	6782
28159	7590	02/01/2008	EXAMINER	
PHILIPS MEDICAL SYSTEMS PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3003 22100 BOTHELL EVERETT HIGHWAY BOTHELL, WA 98041-3003			ROZANSKI, MICHAEL T	
ART UNIT		PAPER NUMBER		
3768				
MAIL DATE		DELIVERY MODE		
02/01/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/599,769	RAFTER, PATRICK	
Examiner	Art Unit		
Michael Rozanski	3768		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 13 November 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 09 October 2006 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 10/9/06, 11/13/07. 5) Notice of Informal Patent Application
6) Other: ____ .

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-6 in the reply filed on 11/13/07 is acknowledged. Applicant has amended claims 7 and 15 to depend from claim 1, leaving claims 1-20 for examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

-It is unclear how the system comprises a source of patient heart waveforms because this source of heart waveforms is the heart itself.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Demers et al (US PUB 2003/0195421 –cited by applicant).

Demers et al disclose an ultrasound imaging system 100 including a probe 110, transducer 112 for transmitting energy in the form of a beam (para [0017]). Steering of the beam to scan different parts of an object is controlled by central controller 120, which responds to commands from a user entered via a user interface 119 or it may be programmed to steer the beam automatically in a predetermined manner (para [0017]). Through the user interface 119, an operator can adjust the orientation of the slices to visualize spatial relationships of tissue features (para [0019]). System controller 120 commands a transmit frequency control 117 is used to transmit a desired frequency band, causing the transducer to transmit ultrasonic waves in one of a plurality of selected frequency bands, which are stored and are responsive to input from the system controller 120 (para [0016]). Echo signals are detected and processed by a B mode processor 137, a contrast signal detector 128 for contrast agent image processing, or a Doppler processor 130 (para [0018]).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10-13 and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Demers et al as applied to claim 7 in view of Hossack et al (US 5,947,904 –cited by Applicant).

Demers et al substantially disclose all features of the current invention but do not specifically disclose steps of infusing the body with a contrast agent or acquiring a heart cycle waveform of the heart. In the same field of endeavor, Hossack et al teach of an ultrasonic method including infusing the body with contrast agent for image enhancement (col 3, lines 36-58) and using an EKG signal generator 32 for acquiring a heart cycle waveform of the heart for imaging during desired time periods (col 6, lines 26-44). It would have been obvious to the skilled artisan to modify Demers et al, to include steps of infusing with contrast agent and acquiring heart cycle waveforms as taught by Hossack et al, because such steps are well known in the art and are commonly used for enhancing ultrasonic images and for acquiring images during time periods of the cardiac cycle.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Rozanski whose telephone number is 571-272-1648. The examiner can normally be reached on Monday - Friday, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


MR


ERIC F. WINAKUR
PRIMARY EXAMINER